AP3 Rec o PCT/PTU 09 MAY 2008

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PTC-1390 (Rev. 07-2005)
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TRANSMITTAL LETTER TO THE UNITED STATES			ATTORNEY'S DOCKET NUMBER 112624.00062				
DESIGNATED/ELECTED OFFICE (DO/EO/US)			U.S. APPLICATION, NO.: (If:known, see, 37, GFR 1.5)				
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE		To be assigned 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
PCT/US2004/03		17 November 2004	17 November 2003				
TITLE OF INVENTI Flexible Electron	TITLE OF INVENTION Flexible Electronics Using Ion Implantation to Adhere Polymer Substrate to Single Crystal Silicon Substrate						
APPLICANT(S) FO	R DO/EO/US	Ir Hyunchul Kim Michael Nasta	si, James W. Mayer and Daniel Adams				
Applicant herewit	h submits to the United St	ates Designated/Elected Office (DO/EC	O/US) the following items and other information:				
1. This is a	FIRST submission of items ∞	oncerning a submission under 35 U.S.C. 371	l.				
2. This is a s	SECOND or SUBSEQUENT	submission of items concerning a submissio	n under 35 U.S.C. 371.				
3. This is an (5), (6), (express request to begin nat 9) and (21) indicated below.	ional examination procedures (35 U.S.C. 37	1(f)). The submission must include items				
4. The US h	as been elected (Article 31).						
 A copy 	of the International Application	n as filed (35 U.S.C. 371(c)(2))					
а. 🗌	is attached hereto (require	d only if not communicated by the Internation	nal Bureau).				
b	has been communicated b	y the International Bureau.					
c. 🗹		ication was filed in the United States Receiv					
6. An Eng	lish language translation of th	ne International Application as filed (35 U.S.0	C. 371(o)(2)).				
a. L	a. is attached hereto.						
b. L		itted under 35 U.S.C. 154(d)(4).					
7. Amend	ments to the claims of the Int	ernational Application under PCT Article 19	(35 U.S.C. 371(c)(3))				
a. L	are attached hereto (requ	ired only if not communicated by the Interna	tional Bureau).				
ь. 🗀	b. have been communicated by the International Bureau.						
c. L	c. have not been made; however, the time limit for making such amendments has NOT expired.						
d. <u>L</u> •	d. An have not been made and will not be made.						
8. An En	glish language translation of t	he amendments to the claims under PCT A	ticle 19 (35 U.S.C. 371(c)(3)).				
	or declaration of the invento						
	lish language translation of th 36 (35 U.S.C. 371(c)(5)).	ne annexes of the International Preliminary (Examination Report under PCT				
Items 11 to 20	below concern document(s) or information included:					
11. 📝 🛮 An Info	mation Disclosure Statemen	t under 37 CFR 1.97 and 1.98.					
12. An ass	gnment document for record	ing. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.				
13. 🗹 A prelii	ninary amendment.						
14. 🗹 An App	lication Data Sheet under 37	CFR 1.76.					
15. A subs	titute specification.						
16. 🗹 A powe	er of attorney and/or change of	of address letter.					
17. A com	outer-readable form of the sec	quence listing in accordance with PCT Rule	13ter.2 and 37 CFR 1.821- 1.825.				
18. A seco	nd copy of the published Inte	mational Application under 35 U.S.C. 154(d)(4).				
19. A seco	nd copy of the English langua	age translation of the international applicatio	n under 35 U.S.C. 154(d)(4).				

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3 1999729

IAP20 Rec'd PCT/PTO 0.9 VITO 890(FFW-07-2005)
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U.S. APPLICATION NO. (if known see 37) (FR 16)		INTERNATIONAL AF	ERNATIONAL APPLICATION NO. ATTORNEY'S DOCKET NU		KET NUMBER				
U.S. APPLICATION NO. (if known, see 37 GPR 15) To be assigned (1)		PCT/US2004/03870	PCT/US2004/038702		112624.00062				
	items or information		l						
Prior .	Prior Art References (3); and Return postcard.								
The follo	owing fees have b	een submitted			CALCULATIONS	PTO USE ONLY			
				\$300	\$ 300.00				
22. 📝 Examination fee (37 CFR 1.492(c))									
If the written opin	ion prepared by IS	SA/US or the inte	mational preliminary examina	tion report prepared	\$				
by IPEA/I All other situation	US indicates all cla ns	aims satisfy prov	isions of PCT Article 33(1)-(4)	\$200	200.00				
If the written opin	ch fee (37 CFR 1. ion of the ISA/US	or the Internation	nal preliminary examination re	port prepared by					
Search fee (37 C	FR 1.445(a)(2)) ha	as been paid on t	ons of PCT Article 33(1)-(4) the international application to	the USPTO as an	\$ 100.00				
Internation	onal Searching Au	thority	er than the US and provided to	\$100					
previously	communicated to	the US by the If	3	\$400					
All other situation	ıs			\$500	000.00	 			
A 30.00	TOTAL OF 21, 22	2 and 23 =	ed in paper avec 100 abouts /s	voludina	600.00				
☐ sequence	e listing in complia	ince with 37 CFR	ed in paper over 100 sheets (e t 1.821(c) or (e) or computer p	rogram listing in an					
electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.									
				DATE					
Total Sheets	Total Sheets Extra Sheets Number of each additional 50 or fraction RATE thereof (round up to a whole number)		KAIE						
- 100 =	/50 =			x \$250	\$ 0.00	<u> </u>			
Surcharge of \$13	0.00 for furnishing	any of the searc	ch fee, examination fee, or the	oath or declaration	\$ 0.00				
after the date of o	commencement of	the national stag	ge (37 CFR 1.492(h)).			1			
CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	T			
Total claims	29	- 20 =	9	x \$50	\$ 450.00				
Independent dair	ms 4	- 3 =	1	x \$200	\$ 200.00				
MULTIPLE DEP	ENDENT CLAIM(S	S) (if applicable)		+ \$360	\$ 0.00				
				CALCULATIONS =	\$ 1.250.00				
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.					625.00	<u> </u>			
				SUBTOTAL =	\$ 625.00	<u> </u>			
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ 0.00					
TOTAL NATIONAL FEE =				\$ 625.00					
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property				\$ 0.00					
TOTAL FEES ENCLOSED =					\$ 625.00				
			-	•	Amount to be refunded:	\$ 0.00			
			·		Amount to be charged	\$ 625.00			

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a. 🗀	A check in the amount of \$ to cover the above fees	PERCEPTION	09	MAY	2006			
b. 	47.0055	to cover the above	fees.					
c. 🗹	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>17-0055</u> . A duplicate copy of this sheet is enclosed.							
d. 🗆	Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.								
Rober QUAF One F Two N Phoer	RLES & BRADY STREICH LANG LLP Renaissance Square North Central Avenue enix, AZ 85004	ENATURE Dert D. Atkins ME 288 GISTRATION NUMBER	. A	<u></u>				

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EXPRESS MAIL CERTIFICATE: EV667329996 POP OF MAY 2006

I hereby certify that this correspondence listed below is being deposited with the United States Postal Service on the date set forth below as Express Mail in an envelope addressed to: Mail Stop PCT RO/US, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Signature

and Deposit: May _____, 200

(Signature of person depositing mail)

MARITZA O'NEILL

CERTIFICATE OF MAILING PURSUANT TO 37 C.F.R. 1.10

Applicant(s)

Terry L. Alford et al.

Application Serial Number

To be assigned

Date of Filing

May 9, 2006

Title

FLEXIBLE ELECTRONICS USING ION IMPLANTATION

TO ADHERE POLYMER SUBSTRATE TO SINGLE

CRYSTAL SILICON SUBSTRATE

Group Art Unit

To be assigned

Examiner

To be assigned

USPTO Customer No.

26707

Attorney Docket No.

112624.00062

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Alexandria, VA 22313-1450

Type of Filing:

- 1) Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Filing Under 35 U.S.C. 371 (3 pages, in duplicate)
- 2) Preliminary Amendment (3 pages)
- 3) Application Data Sheet (4 pages)
- 4) Executed Declaration (6 pages)
- 5) Executed Power of Attorney, along with a Statement Under 37 CFR 3.73(b) (2 pages)
- 6) Executed Power of Attorney of Michael A. Nastasi
- 7) Information Disclosure Statement, along with Form PTO-1449 (4 pages)
- 8) Prior Art References (3 references)
- 9) Return postcard

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